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 FACIL: 50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley AU  
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley AU  
 AUTH. NAME: MILLS, L.W. AUTHOR AFFILIATION: Tennessee Valley Authority  
 RECIP. NAME: O'REILLY, J.P. RECIPIENT AFFILIATION: Region 2, Atlanta, Office of the Director

DOCKET #  
 05000438  
 05000439

SUBJECT: First interim deficiency report re automatic switchover of  
 borated water storage tank, initially reported on 801203. Util  
 will reissue control documents providing for automatic  
 switchover. Next report will be forwarded by 810218.

DISTRIBUTION CODE: 8019S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2  
 TITLE: Construction Deficiency Report (10CFR50.55E)

NOTES:

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

January 2, 1981

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

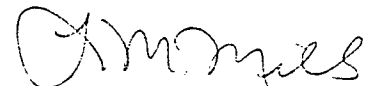
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - AUTOMATIC SWITCHOVER OF BORATED  
WATER STORAGE TANK - NCR BLN BLP 8010 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
R. W. Wright on December 3, 1980, in accordance with 10 CFR 50.55(e).  
Enclosed is our first interim report. We expect to submit our next report  
by February 18, 1981.

If you have any questions concerning this matter, please get in touch with  
D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager  
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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ENCLOSURE  
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
AUTOMATIC SWITCHOVER OF BORATED WATER STORAGE TANK  
10CFR50.55(e) NCR BLNBLP8010  
FIRST INTERIM REPORT

Description of Deficiency

The Solid State Control System design does not provide automatic switchover of decay heat removal pump suction from borated water storage tank (BWST) to reactor building emergency sump when BWST level is low. Automatic switchover is required per TVA design criteria. The latest revision of the control logic drawing and the control logic implementation circuit interface diagram revisions do not reflect this requirement.

The apparent cause of the deficiency involved improper use of the design review method of verification procedure for control documents in the design process for control logic diagrams and their implementation drawings.

Interim Progress

TVA has reaffirmed the need for automatic switchover and is in the process of reissuing control documents which will provide for it. The apparent cause of the deficiency requires further investigation.